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Consultants and Engineers
Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

GRADATION FOR GSB (Grading V)

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 29/10/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	3 & 4
Date	06.07.2022 to 07.07.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1838.7	1838.7	9.19	90.81	80 - 100	
26.5	2777.7	4616.4	23.08	76.92	55 - 90	
9.5	5563.0	10179.4	50.90	49.1	35 - 65	
4.75	1714.9	11894.3	59.47	40.53	25 - 50	
2.36	5579.2	17473.5	87.37	12.63	10 - 20	
0.850	1322.4	18795.9	93.98	6.02	2 - 10	
0.425	844.8	19640.7	98.20	1.8	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1753.3	1753.3	8.77	91.23	80 - 100	
26.5	3984.2	5737.5	28.69	71.31	55 - 90	
9.5	4097.2	9834.7	49.17	50.83	35 - 65	
4.75	1653.6	11488.3	57.44	42.56	25 - 50	
2.36	6084.1	17572.4	87.86	12.14	10 - 20	
0.850	1454.3	19026.7	95.13	4.87	2 - 10	
0.425	928.0	19954.7	99.77	0.23	0 - 5	

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For Sapience Consultants and Engineers,

Authorized Signature

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ಡಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಜಾಗಜಿಗುಂಟೆ. ಜಿ.ಜಿ.ಎಂ.ಪಿ
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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 29/10/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	5 & 6
Date	11.07.2022 to 12.07.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2492.8	2492.8	12.46	87.54	80 - 100	
26.5	3234.8	5727.6	28.64	71.36	55 - 90	
9.5	4843.5	10571.1	52.86	47.14	35 - 65	
4.75	1752.0	12323.1	61.62	38.38	25 - 50	
2.36	5268.8	17591.9	87.96	12.04	10 - 20	
0.850	1038.2	18630.1	93.15	6.85	2 - 10	
0.425	1276.5	19906.6	99.53	0.47	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1878.7	1878.7	9.39	90.61	80 - 100	
26.5	2682.1	4560.8	22.80	77.20	55 - 90	
9.5	5164.7	9725.5	48.63	51.37	35 - 65	
4.75	1843.4	11568.9	57.84	42.16	25 - 50	
2.36	5980.2	17549.1	87.75	12.25	10 - 20	
0.850	1582.9	19132.0	95.66	4.34	2 - 10	
0.425	123.2	19255.2	96.28	3.72	0 - 5	

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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 29/10/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(OMS Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	7 & 8
Date	12.07.2022 to 13.07.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2145.9	2145.9	10.73	89.27	80 - 100	
26.5	3428.6	5574.5	27.87	72.13	55 - 90	
9.5	5187.1	10761.6	53.81	46.19	35 - 65	
4.75	813.2	11574.8	57.87	42.13	25 - 50	
2.36	6014.1	17588.9	87.94	12.06	10 - 20	
0.850	1453.6	19042.5	95.21	4.79	2 - 10	
0.425	162.4	19204.9	96.02	3.98	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1661.6	1661.6	8.31	91.69	80 - 100	
26.5	3749.8	5411.4	27.06	72.94	55 - 90	
9.5	4478.1	9889.5	49.45	50.55	35 - 65	
4.75	1582.7	11472.2	57.36	42.64	25 - 50	
2.36	6007.8	17480.0	87.40	12.60	10 - 20	
0.850	1282.9	18762.9	93.81	6.19	2 - 10	
0.425	1087.0	19849.9	99.25	0.75	0 - 5	

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Project Management and Consultancy Services

Summary of Frequencies of Field and Laboratory Tests Conducted

oject Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
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b No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58
ntractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
ix Type	Wet Mix Macadam

l. No.	Test Details	Quantity in m^3	Frequency of Tests	Tests Required	Tests Carried Out
1	Aggregate Impact Value	4144.09	1 Test / 200 m^3	21	21
2	Combined Flakiness and Elongation Indices		1 Test / 200 m^3	21	21
3	Aggregate Gradation		1 Test / 100 m^3	42	42
4	Atterberg Limits		1 Test / 100 m^3	42	42

SAPIENCE CONSULTANTS & ENGINEERS Bangalore-59

pience Consultants and Engineers,

Contractor / Agency

ssistant Engineer

Assistant Executive Engineer

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Aggregate Particle Shape

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 25/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS 2386(Part I) 1963 (RA 2011)
Source / Location	Plant
Sample No.	1,2 & 3
Date	13.06.2022

Sl. No.	Test	1	2	3	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index	14.40	12.50	13.20	Maximum allowable Combined Flakiness and Elongation Indices for Wet Mix Macadam is 35% as per Table 400.12 MORTH Specification.
2	Elongation Index	12.60	14.80	14.40	
3	Combined Flakiness & Elongation index	27.00	27.30	27.60	

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For Sapience Consultants and Engineers,

Authorized Signature

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Aggregate Impact Value

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
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Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 25/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS : 2386 (Part - IV) 1963
Source / Location	Plant
Sample No.	1
Date	13.06.2022

Sl. No.	Details	Test No.		Average Aggregate Impact Value
		1	2	
1	Weight of Empty Cylinder (in gms) W1	1967	1967	21.00%
2	Weight of cylinder filled with sample (in gms) W2	2487	2476	
3	Weight of Sample (in gms) = (W2 - W1) W3	520	509	
4	Weight of Sample passing through 2.36mm IS sieve after impact (in gms) W4	106	111	
5	Weight of Sample retained in 2.36mm IS sieve after impact (in gms) W5	414	398	
6	Aggregate Impact Value in Percentage	20.00%	22.00%	

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Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 30% (MORTH table no.500.16)

For Sapience Consultants and Engineers,

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Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 25/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS : 2386 (Part - IV) 1963
Source / Location	Plant
Sample No.	2
Date	14.06.2022

Sl. No.	Details	Test No.		Average Aggregate Impact Value
		3	4	
1	Weight of Empty Cylinder (in gms) W1	1967	1967	21.00%
2	Weight of cylinder filled with sample (in gms) W2	2474	2495	
3	Weight of Sample (in gms) = (W2 - W1) W3	507	528	
4	Weight of Sample passing through 2.36mm IS sieve after impact (in gms) W4	110	108	
5	Weight of Sample retained in 2.36mm IS sieve after impact (in gms) W5	397	420	
6	Aggregate Impact Value in Percentage	22.00%	20.00%	

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SAPIENCE CONSULTANTS & ENGINEERS Bangalore-59

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Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS : 2386 (Part - IV) 1963
Source / Location	Plant
Sample No.	3
Date	15.06.2022

Sl. No.	Details	Test No.		Average Aggregate Impact Value
		5	6	
1	Weight of Empty Cylinder (in gms) W1	1967	1967	21.00%
2	Weight of cylinder filled with sample (in gms) W2	2476	2481	
3	Weight of Sample (in gms) = (W2 - W1) W3	509	514	
4	Weight of Sample passing through 2.36mm IS sieve after impact (in gms) W4	109	109	
5	Weight of Sample retained in 2.36mm IS sieve after impact (in gms) W5	400	405	
6	Aggregate Impact Value in Percentage	21.00%	21.00%	

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Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS : 2386 (Part - IV) 1963
Source / Location	Plant
Sample No.	1
Date	18.06.2022

Sl. No.	Details	Test No.		Average Aggregate Impact Value
		1	2	
1	Weight of Empty Cylinder (in gms) W1	1967	1967	21.00%
2	Weight of cylinder filled with sample (in gms) W2	2484	2482	
3	Weight of Sample (in gms) = (W2 - W1) W3	517	515	
4	Weight of Sample passing through 2.36mm IS sieve after impact (in gms) W4	107	108	
5	Weight of Sample retained in 2.36mm IS sieve after impact (in gms) W5	410	407	
6	Aggregate Impact Value in Percentage	21.00%	21.00%	

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SAPIENCE CONSULTANTS ENGINEERS Bangalore

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಜಿ.ಕೆ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು-೫೬೦೦೭೩

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Aggregate Impact Value

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 29/10/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS : 2386 (Part - IV) 1963
Source / Location	Plant
Sample No.	2
Date	20.06.2022

Sl. No.	Details	Test No.		Average Aggregate Impact Value
		3	4	
1	Weight of Empty Cylinder (in gms) W1	1967	1967	22.00%
2	Weight of cylinder filled with sample (in gms) W2	2480	2478	
3	Weight of Sample (in gms) = (W2 - W1) W3	513	511	
4	Weight of Sample passing through 2.36mm IS sieve after impact (in gms) W4	112	112	
5	Weight of Sample retained in 2.36mm IS sieve after impact (in gms) W5	401	399	
6	Aggregate Impact Value in Percentage	22.00%	22.00%	

Note:
→ This test report should not be reproduced except in full, without written approval of the laboratory
→ The results indicated above are based on the tests carried out on the Samples are collected on the work spot & tested in the laboratory.
→ Any Query regarding the report must be reported within 15 days from the date of testing.
Comments:
→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 30% (MORTH table no.500.16)

SAPIENCE CONSULTANTS & ENGINEERS Bangalore-59

For Sapience Consultants and Engineers,

Authorized Signature

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